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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/618,301 07/11/2003		Masaki Hamamoto	59559 (70551)	4334	
21874 759	90 09/15/2006		EXAMINER		
EDWARDS & ANGELL, LLP			HOLZEN, STEPHEN A		
P.O. BOX 5587	4				
BOSTON, MA 02205			ART UNIT	PAPER NUMBER	
			3644		
			DATE MAIL ED: 00/15/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Ap	plication No.	Applicant(s)	Applicant(s)			
		10	0/618,301	намамото ет	HAMAMOTO ET AL.			
		Ex	aminer	Art Unit				
			ephen A. Holzen	3644				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Re:	sponsive to communication(s) filed	d on 21 June	2006.					
·			ion is non-final.					
<u>'</u>								
, —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>40-70</u> is/are pending in the application.								
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
•	5) Claim(s) is/are allowed.							
·	6) Claim(s) is/are rejected.							
	· · · · · · · · · · · · · · · · · · ·							
8)⊠ Cla	8) Claim(s) 40-70 are subject to restriction and/or election requirement.							
Application	Papers							
9)□ The	specification is objected to by the	Examiner.						
,—	•		ed or b) objected to b	by the Examiner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority und	er 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (P	TO-948)		ummary (PTO-413))/Mail Date				
3) Information	on Disclosure Statement(s) (PTO/SB/08) (s)/Mail Date			formal Patent Application				

Application/Control Number: 10/618,301 Page 2

Art Unit: 3644

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of wave plate structures:

- a. Ridge lines or valley lines (see for example Claim 41)
- b. Ridge lines and valley lines (see for example Claim 44, 45)

The species are distinct becaue they do not overlap in scope, i.e. are mutually exclusive, the inventions as claimed are not obvious variants and the invention as claimed are not capable of use together. See MPEP 806.05(j). Either the wave plate structure has one of a ridge line or valley line structure, or the wave plate structure has both.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 40 is generic.

- 2. This application contains claims directed to the following patentably distinct species of side portions comprising a supporting member:
 - c. Upper Side in combination with a lower side (see for example Claim 46)
 - d. Front Side in combination with a trailing side (see for example Claims 47)

The species are distinct because the related inventions do not overlap in scope, i.e. are mutually exclusive, the inventions as claimed are not obvious variants and the

Application/Control Number: 10/618,301 Page 3

Art Unit: 3644

invention as claimed are not capable of use together. See MPEP 806.05(j). It should be appreciated that the examiner can not find a discussion with regards to the "upper side" in the specification and therefore believes that since applicant has not disclosed the upper side and front side as capable of both having a supporting member then applicant means either side could have a supporting member.

- 3. This application contains claims directed to the following patentably distinct species delays in phase is timed to the motion of the:
 - e. Outer wing tip section (see Claim 58)
 - f. Root of the wing (Claim 60)

The species are distinct because the related inventions do not overlap in scope, i.e. are mutually exclusive, the inventions as claimed are not obvious variants and the invention as claimed are not capable of use together. See MPEP 806.05(j).

- 4. This application contains claims directed to the following patentably distinct species of prescribed parameter is:
 - g. A lift force generated by the upward and downward motion of the the wing portion relative to the body
 - h. A value obtained by dividing a lift force generated by the motion of the wing portion by a torque necessary for driving said wing portion so as to generated a desired lift force

i. The highest frequency of said driving unit necessary for realizing said optimum upward and downward motion of said wing portion.

The species are distinct because the related inventions do not overlap in scope, i.e. are mutually exclusive, the inventions as claimed are not obvious variants and the invention as claimed are not capable of use together. See MPEP 806.05(j).

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen A. Holzen whose telephone number is 571-272-6903. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/618,301

Art Unit: 3644

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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